NONRESIDENTIAL ACM MANUAL APPENDIX NA

Appendix NA - Nonresidential ACM Approval Application

CALIFORNIA ENERGY RESOURCES

CONSERVATION AND DEVELOPMENT COMMISSION

APPLICATION FOR APPROVAL OF A VENDOR-CERTIFIED ALTERNATIVE CALCULATION METHOD FOR USE IN DEMONSTRATING COMPLIANCE WITH THE NONRESIDENTIAL BUILDING ENERGY EFFICIENCY STANDARDS PER SECTION 141, TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS

Part I: General Information

1.   Organization filing application:

         Name: _____   Phone: (   )_____

         Address: _____

         _____

2.   Name of person responsible for completion of this application:

         Name: _____   Phone: (   )_____

         Address: _____

         _____

3.   Name, Date, and Version of the Alternative Calculation Method (ACM):

         Name: _____   Date: _____

         Version: _____

4.   Has a previous version of this ACM ever been certified?

              [   ] YES   [   ] NO

5.   Has this ACM been previously submitted for approval or certification?

              [   ] YES   [   ] NO

6.   Has this ACM ever been used to analyze the energy use of a building in California?

              [   ] YES   [   ] NO

7.   Has this ACM ever been used to determine compiance with the energy efficiency standards of California?

              [   ] YES   [   ] NO

VENDOR CERTIFICATION OF ALTERNATIVE CALCULATION METHOD

I/We_____, certify that the alternative calculation method (ACM), herein
                          name(s)

designated _____ ,version _____ , dated_____ ,
                    name of alternative calculation method   version   last saved
update

occupying_____bytes of memory, conforms to all of the requirements specified for an
              exact memory size in bytes

ACM for Commission approval listed in the Nonresidential ACM Approval Manual.   I/We specifically certify that this ACM sucessfully conforms to the test criteria for each and every ACM capability test in Chapter 4 of the Alternative Calculation Method (ACM) Approval Manual for the Nonresidential building energy efficiency standards. Moreover, I/we certify that, to the best of my/our knowledge and belief, we have found no instances where this ACM would indicate compliance for a proposed building that the reference computer program using the the reference method would indicate fails to comply with the building energy efficiency standards.

I/We also understand that all required inputs must be available in any approvable ACM but the ACM is not required to model the features described by a given set of inputs. I/We stipulate that this ACM gives the user access to the required inputs and that this ACM automatically warns the user when building inputs use features that the ACM cannot model with sufficient accuracy and automatically fails the proposed building by a margin sufficient to meet the test criteria for any test of that capability.

Signed: Date:

_____   _____

_____   _____

ACM Application Test Results for

Required Capabilities Tests

TEST	PTa	STa	DTa	PTr	STr	DTr	CR1	CR2	LITEr	RECPr	CR3	CR4
A11A09												
A12A09												
A13A09												
A21B13												
A22B13												
A23B06												
A24B16												
A25B03												
A26B13												
A27B16												
B11B13												
B12B13												
B13B13												
B14B06												
B15B16												
B21B12												
B22B12												
B23B12												

$DTi = PTi - STi$ where i is either 'a' for acm or 'r' for reference

$CR1 = DTa - (0.85 \times DTr - 1) > 0$ when $DTa \geq 0$ $CR3 = LITEa/LITEr$ must be ≥ 0.980 and ≤ 1.020

$CR2 = DTa - (1.15 \times DTr - 1) > 0$ when $DTa < 0$ $CR4 = RECPa/RECPr$ must be ≥ 0.980 and ≤ 1.020

ACM Application Test Results for

Required Capabilities Tests

TEST	PTa	STa	DTa	PTr	STr	DTr	CR1	CR2	LITEr	RECPr	CR3	CR4
B24B03												
B31D12												
B32D12												
C11A10												
C12A10												
C13A10												
C14A10												
C15A10												
C21B10												
C22C16												
D11D12												
D12D12												
D13D07												
D14D07												
E11D16												
E12D16												
E13D16												
E14D14												

$DTi = PTi - STi$ where i is either 'a' for acm or 'r' for reference

$CR1 = DTa - (0.85 \times DTr - 1) > 0$ when $DTa \geq 0$ $CR3 = LITEa/LITEr$ must be ≥ 0.980 and ≤ 1.020

$CR2 = DTa - (1.15 \times DTr - 1) > 0$ when $DTa < 0$ $CR4 = RECPa/RECPr$ must be ≥ 0.980 and ≤ 1.020

ACM Application Test Results for

Required Capabilities Tests

TEST	PTa	STa	DTa	PTr	STr	DTr	CR1	CR2	LITEr	RECPr	CR3	CR4
E15D14												
E16D14												
E21B16												
E22B16												
E23B16												
E24B12												
E25B12												
E26B12												
F11A07												
F12A13												
F13B12												
F14B12												
F15A01												
G11A11												
G12A11												
G13A11												
G14A11												
G15B03												
G16B16												

$DTi = PTi - STi$ where i is either 'a' for acm or 'r' for reference

$CR1 = DTa - (0.85 \times DTr - 1) > 0$ when $DTa \geq 0$ $CR3 = LITEa/LITEr$ must be ≥ 0.980 and ≤ 1.020

$CR2 = DTa - (1.15 \times DTr - 1) > 0$ when $DTa < 0$ $CR4 = RECPa/RECPr$ must be ≥ 0.980 and ≤ 1.020

ACM Application Test Results for

Optional Capabilities Tests

TEST	PTa	STa	DTa	PTr	STr	DTr	CR1	CR2	LITEr	RECPr	CR3	CR4
OC1A09												
O11B13												
O12B13												
O21B13												
O22B13												
O23B13												
O24B13												
O31A12												
O32A12												
O33A12												
O41B13												
O61B12												
O62B12												
O63B12												
O64B12												
O65B12												
O66B12												

$DTi = PTi - STi$ where i is either 'a' for acm or 'r' for reference

$CR1 = DTa - (0.85 \times DTr - 1) > 0$ when $DTa \geq 0$ $CR3 = LITEa/LITEr$ must be ≥ 0.980 and ≤ 1.020

$CR2 = DTa - (1.15 \times DTr - 1) > 0$ when $DTa < 0$ $CR4 = RECPa/RECPr$ must be ≥ 0.980 and ≤ 1.020

ACM Application Test Results for

Optional Capabilities Tests

TEST	PTa	STa	DTa	PTr	STr	DTr	CR1	CR2	LITEr	RECPr	CR3	CR4
O71B12												
O81A11												
O82A15												
O91A13												
O92A11												
O93A12												
O94A13												

$DTi = PTi - STi$ where i is either 'a' for acm or 'r' for reference

$CR1 = DTa - (0.85 \times DTr - 1) > 0$ when $DTa \geq 0$ $CR3 = LITEa/LITEr$ must be ≥ 0.980 and ≤ 1.020

$CR2 = DTa - (1.15 \times DTr - 1) > 0$ when $DTa < 0$ $CR4 = RECPa/RECPr$ must be ≥ 0.980 and ≤ 1.020